

FIG. 1

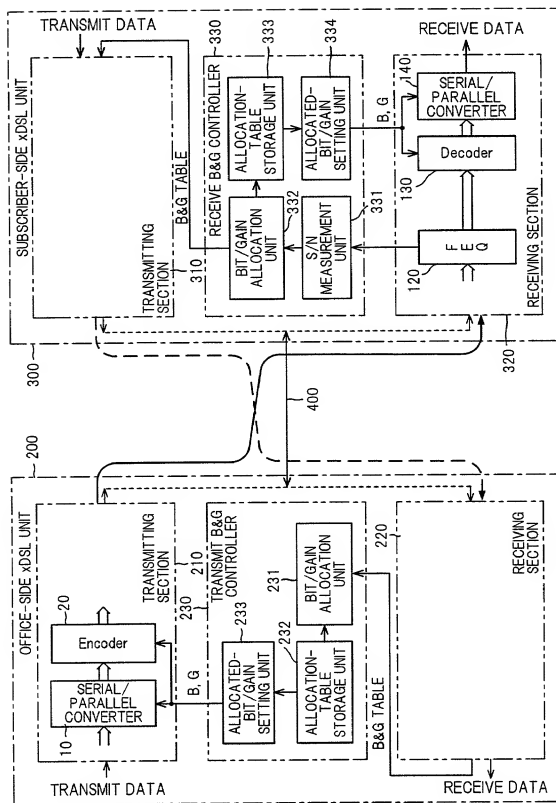


FIG. 2

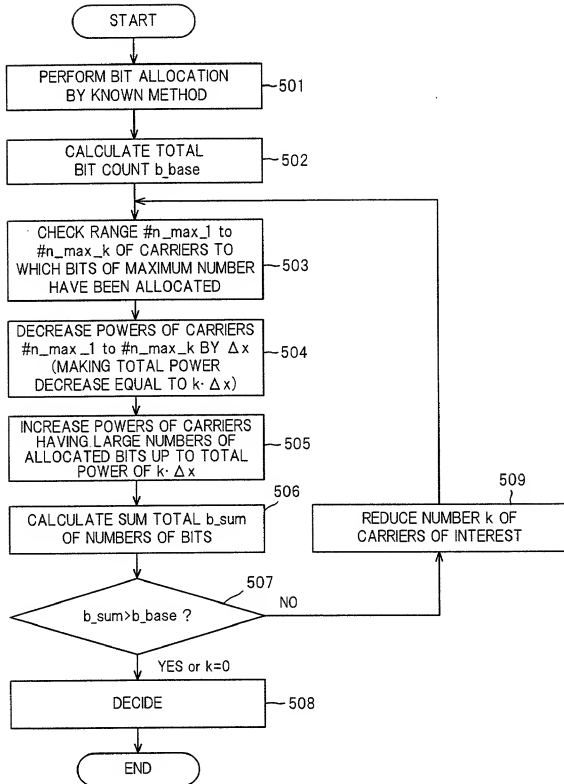


FIG. 3

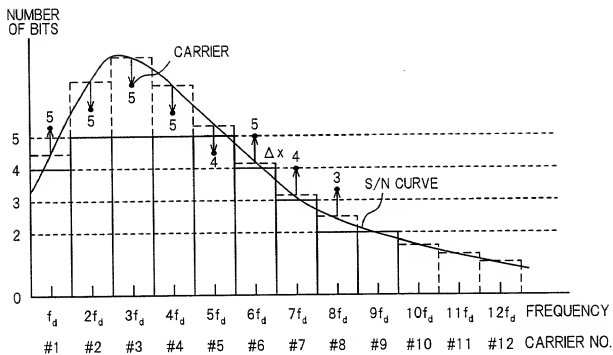


FIG. 4

| NO.             | 1           | 2           | 3           | 4           | 5           | 6           | 7           | 8           | 9 | 10 | 11 | 12 | TOTAL |
|-----------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|---|----|----|----|-------|
| BITS            | 5           | 5           | 5           | 5           | 4           | 5           | 4           | 3           | 2 | 0  | 0  | 0  | 38    |
| ADDITIONAL GAIN | $+\Delta x$ | $-\Delta x$ | $-\Delta x$ | $-\Delta x$ | $-\Delta x$ | $+\Delta x$ | $+\Delta x$ | $+\Delta x$ | 0 | 0  | 0  | 0  | 0     |

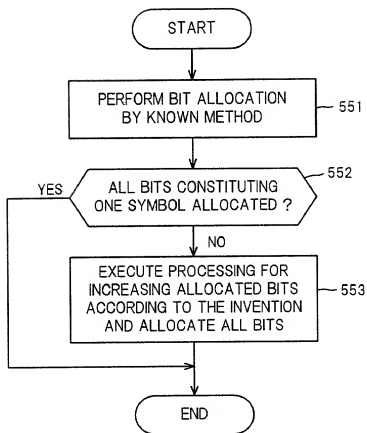
**FIG. 5**

FIG. 6

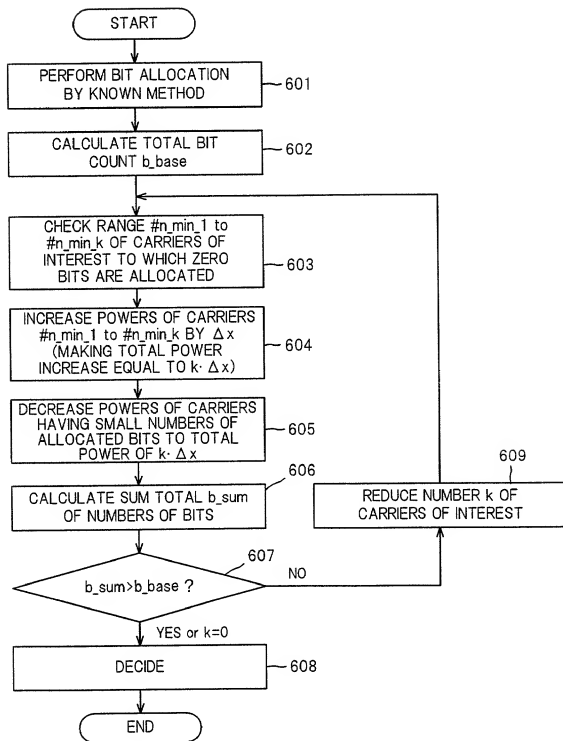


FIG. 7

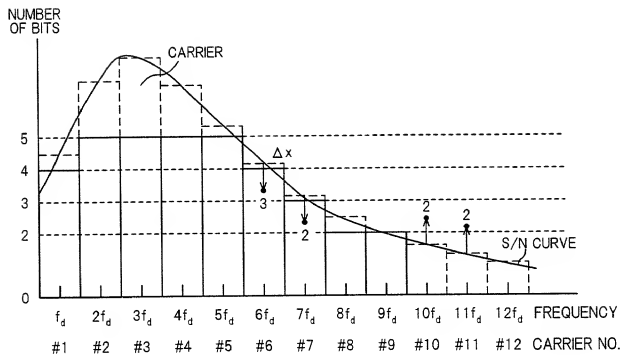
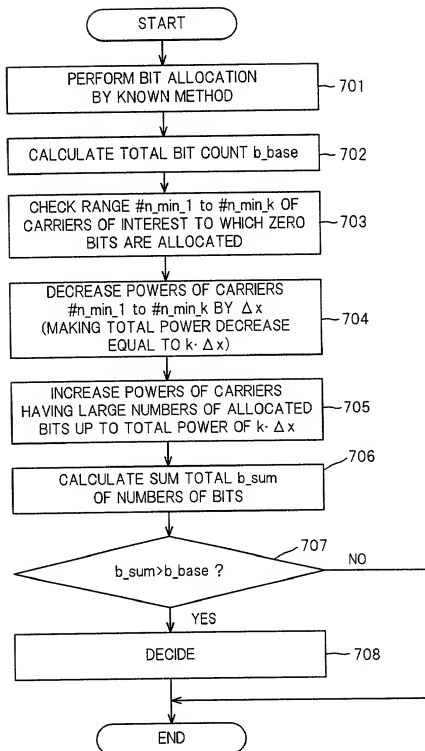


FIG. 8

| NO.             | 1 | 2 | 3 | 4 | 5 | 6           | 7           | 8 | 9 | 10          | 11          | 12 | TOTAL |
|-----------------|---|---|---|---|---|-------------|-------------|---|---|-------------|-------------|----|-------|
| BITS            | 4 | 5 | 5 | 5 | 5 | 3           | 2           | 2 | 2 | 2           | 2           | 0  | 37    |
| ADDITIONAL GAIN | 0 | 0 | 0 | 0 | 0 | $-\Delta x$ | $-\Delta x$ | 0 | 0 | $+\Delta x$ | $+\Delta x$ | 0  | 0     |

FIG. 9



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FIG. 10

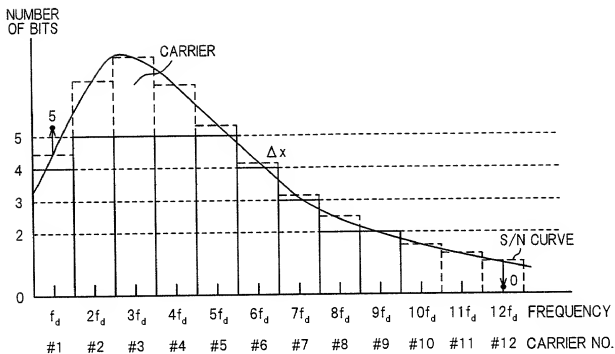


FIG. 11

| NO.             | 1           | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12          | TOTAL |
|-----------------|-------------|---|---|---|---|---|---|---|---|----|----|-------------|-------|
| BITS            | 5           | 5 | 5 | 5 | 5 | 4 | 3 | 2 | 2 | 0  | 0  | 0           | 36    |
| ADDITIONAL GAIN | $+\Delta x$ | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0  | 0  | $-\Delta x$ | 0     |



FIG. 12 PRIOR ART

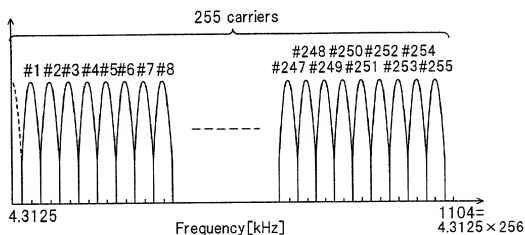


FIG. 13 PRIOR ART

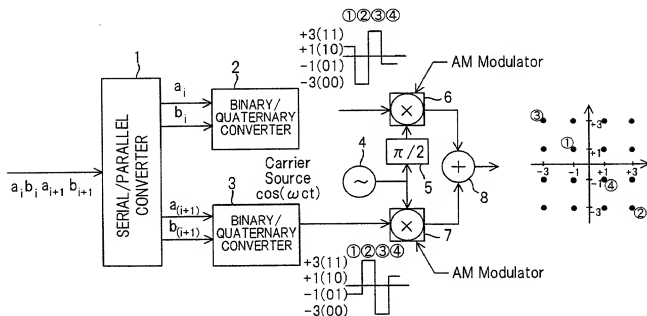


FIG. 14 PRIOR ART

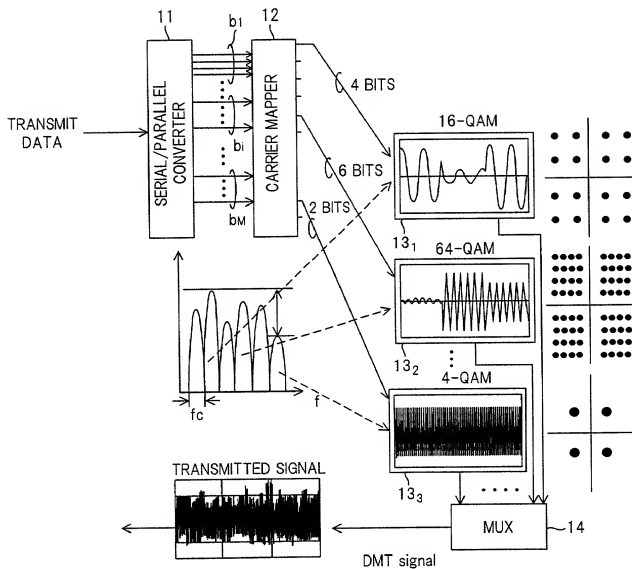


FIG. 16 PRIOR ART

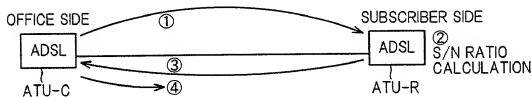
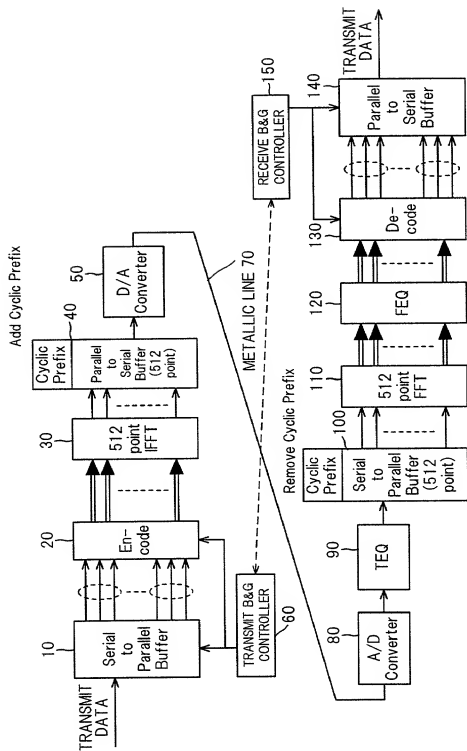
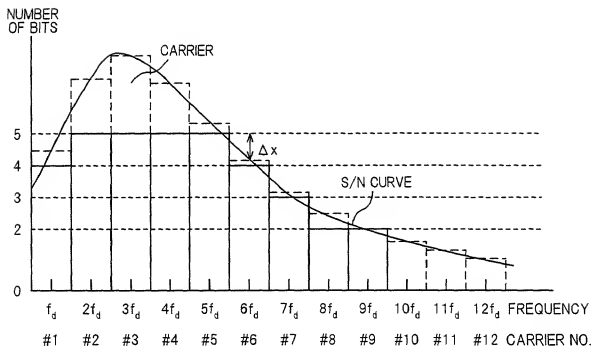


FIG. 15 PRIOR ART



*FIG. 17 PRIOR ART**FIG. 18 PRIOR ART*

NUMBERS OF BITS ALLOCATED BY BIT ALLOCATION BASED UPON KNOWN METHOD

| CARRIER NO. | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | TOTAL |
|-------------|---|---|---|---|---|---|---|---|---|----|----|----|-------|
| BITS        | 4 | 5 | 5 | 5 | 5 | 4 | 3 | 2 | 2 | 0  | 0  | 0  | 35    |